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Safety Precaution

This STB has been designed and manufactured to satisfy the international safety standards. Please read the following safety precautions carefully before operating this receiver.

Main Supply:
Before operating, please check the units operating voltage is 90~250V AC 50/60Hz.

Overload:
Do not overload a wall outlet, extension cord or adapter, neither use damaged power cord or touch it with wet hand as this may result in electric shock.

Liquid:
The receiver shall not be exposed to dripping or splashing water, and that no objects filled with liquids, such as base, shall be placed on the apparatus.

Ventilation:
Keep the slots on top of the receiver uncover to allow sufficient airflow to the unit. Do not put the receiver on soft furnishings or carpets.Do not expose the receiver to direct light or do not place it near a heater or in humid conditions. Do not stack other electronic equipments on top of the receiver.

Cleaning:
Plug out the receiver from the wall outlet before cleaning. Clean the receiver by a soft cloth or mild solution of washing-up liquid (no solvents).

Connection:
Disconnect the receiver from the mains when you connect it to satellite LNB or disconnect it from LNB. Failure would possibily cause damage to the LNB.

Location:
Put the receiver indoor in order to avoid lightening, raining or sunlight.

Uncover:
Do not remove the cover, to reduce the risk of electric shock.Contact qualified and licensed service personnel to repair the receiver, or contact your dealer.

1. Reference

1.1 General Features

MPEG-2 & Fully DVB Compliant

USB 2.0 OTG supports PVR, Playing MP3, MPEG1/2 Movie, JPEG/BMP,Down-loading Software, Uploading Database.

PLL RF-Modulator UHF 21~69 with PAL B/G,I,D/K

Multi LNB Control by DiSEqC 1.0,1.2,1.3(USALS)

SCPC/MCPC Receivable from C / Ku-Band Satellites

Digital Tuner with Loop-Through

PAL/NTSC Conversion

Variable Aspect Ratio (4:3,16:9) for TV

4-digi 7-segment LED Display

RS232 Port for Updating software and Additional Information

User Friendly OSD Menu with Full Function

Installation by Easy Setup Guide

256 Colors Graphic User Interface

Easy Tuning and Network Search

Multi Language Menu (English / Italian / French / Spanish / Germany / Turkish / Arabic / Russian / Persian)

7-Days EPG (Electronic Program Guide) for On-Screen Channel Information

PIG,Small Screen Picture on EPG

PIP, Picture in Picture

Super fast 800 pages OSD Teletext Supported and VBI Teletext Inserted

8 Favorite Group and Parent Lock Function

100 Satellites, 4000 Channels and 4000 transponders

ZOOM and Multi Timer function

Audio Tone for Tuning signal

6 Kind of Sort function for Channels

1.2 Accessories

- Users manual
- Remote Control Unit
- A/V Cable
- Batteries

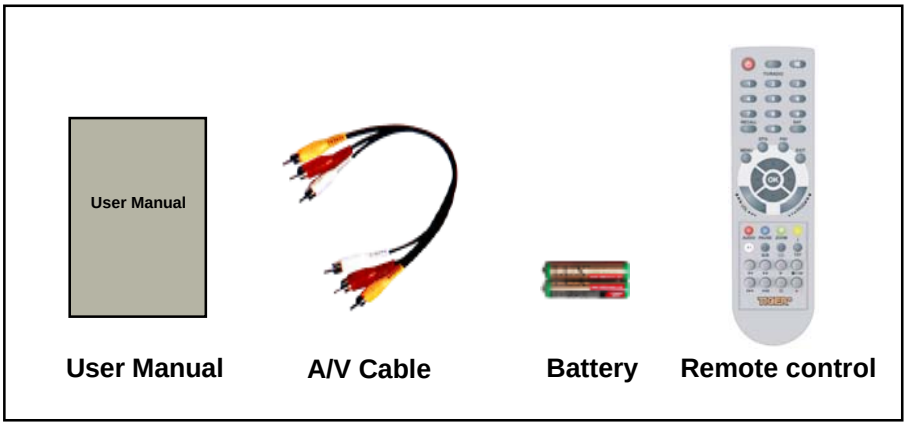


Figure 1. Accessories

2. Basic Function

2.1 Front Panel

Figure 2. Front Panel

1. Power Button
The POWER button is used to turn the power on or to make it on Standby Mode.

2. MENU Button
Activate the main menu in viewing mode, or exit all menu.

3. OK Button
Activate the highlighted sub menu in menu mode and activate the channel list in viewing mode.

4. ▲/▼ Button
Change channel in viewing mode and move the cursor up/down in menu mode.

5. ◀/▶Button
Increase / decrease the volume in viewing mode and change settings in menu mode

6. Display (4-digi 7-segment)
4-digi displays channel information. In Standby mode the 7-segment displays local time.

2.2 Rear Panel

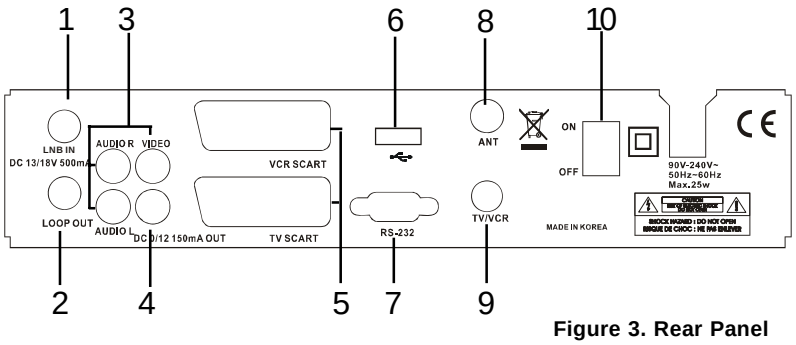


Figure 3. Rear Panel

1. LNB IN 13/18V 500mA Max
Connect the Satellite Dish LNB.

2. LOOP OUT
Output the Dish LNB IN signal.

3. AUDIO, VIDEO
Connect to Audio/Video of TV. Connect Yellow to Video port, connect Red and White to Audio Right and Audio Left.

4. 0/12V
Supply 12V DC to other apparatus.

5. TV SCART, VCR SCART
Connect to TV set or VCR player with Scart cables.

6. USB
One USB 2.0 Host support port.

7. RS232
Connect to serial port of PC for software upgrade.

8. ANT
Connect to TV Antenna

9.TV/VCR
Connect to TV set or VCR with Scart cables.

10. Power
AC Power Switch.

2.3 Remote Control Unit(RCU)

You can control this receiver by this remote controller with full function.

1. POWER : Switch the receiver on or set it to standby mode.

2. MUTE : Turn the sound On/Off.

3. NUMERIC KEY (0~9):
Change program or input number.

4. TV/RADIO : Switch between TV and RADIO.

5. RECALL : Move to the previous viewed channel.

6. SAT : Show the scanned satellite list.

7. MENU : Activate main menu or exit to live channel.

8. EPG (Electronic Program Guide):
Show the TV/Radio program guide.

9. FAV : To get favorite channel list you set before.

10. EXIT : Exit current menu step by step.

10. ■ /USB : Activate USB Menu / Stop recording or playing.

11. Page ▲/▼ : Page up/down on menu.

12. CH▲/▼ : Change channel.

13. VOL◀/▶ : Change volume

14. OK : Confirm the highlighted menu item.
Open the channel list.

15. AUDIO : Select or change the Audio.

16. PAUSE : Freeze the picture.

17. ZOOM : Picture Zooming function.

18. INFO (i) : Show the information of the current channel. Press EXIT button to exit this menu.

Figure 4. Remote Control Unit

19. F1.SLEEP : No function.

20. F2.SUB : Showing Subtitle information if the channels contains.

21. F3.PIP : Activate Multi picture menu and select picture

22. TTX : Show the teletext content if teletext is transmitted.

23. ◀◀ : Fast rewind

24. ▶▶ : Fast forward

25. ▶ : Start playing / Release pause

26. ⏮ : Play previous item.

27. ⏭ : Play next item.

28. ⏸ : Pause / Time-shift

29. ● : Start recording

3. Installation and Connection

The following diagram shows you the connections among receiver, TV, LNB and other equipment, please read this first if you are not sure about the connection, and it will guide you to the correct connection.

3.1 Connecting to TV

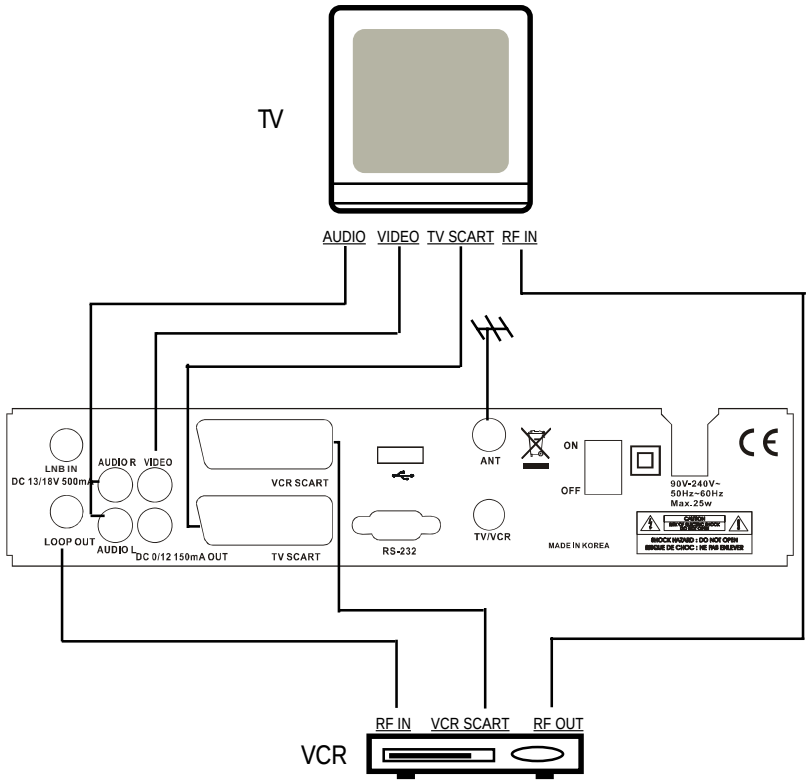


Figure 5. Connecting to TV & VCR

3.2 Connecting to Dish LNB

You can connect one fixed dish LNB directly to the LNB IN, or connect at least two dish LNB by DiSEqC Switch, you can also connect to HH mount dish LNB.

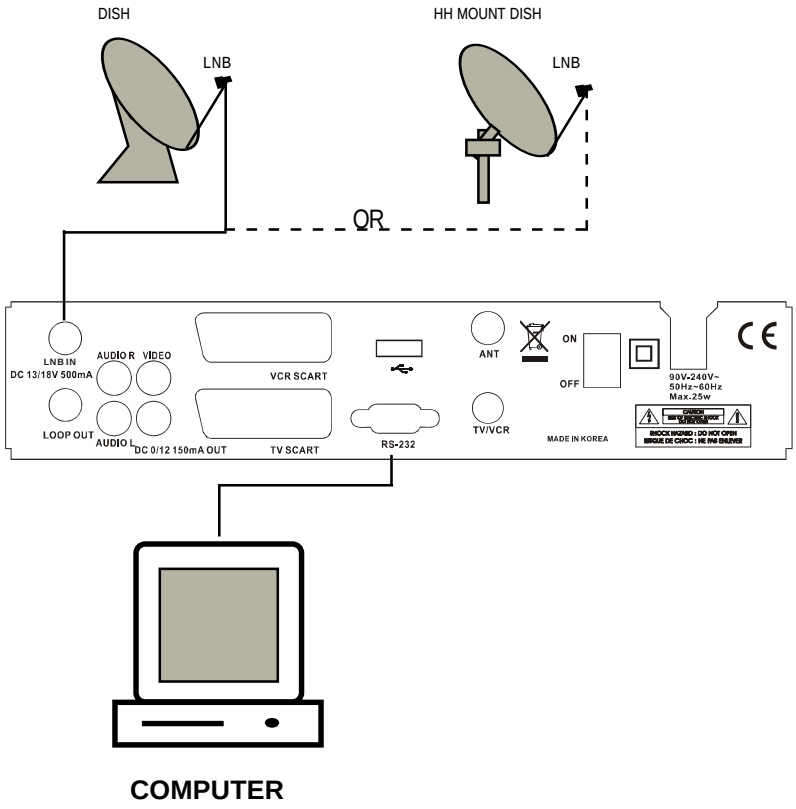


Figure 6. Connecting to Dish LNB

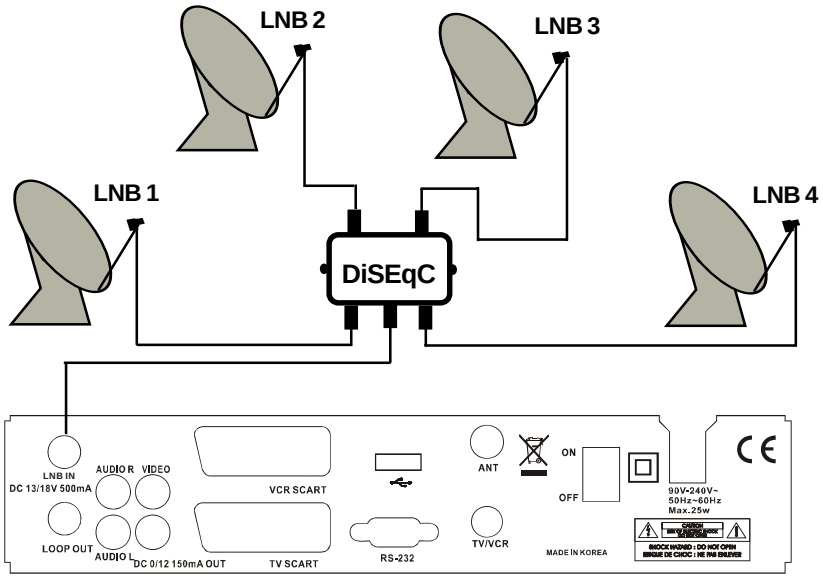


Figure 7. Connecting to Dish LNB

4. Installation and Operation

After connecting the receiver to other required equipment, turn on the receiver, it will be main menu at the first startup, you need to follow the procedure to setup your receiver to search the channel.

--Menu Guide--

--**Main Menu--**

Press **MENU** button to activate main menu, main menu consists of Installation**,** Channel Manager,System Setting,Games.

2).Use ▲/▼ button to select your subject and press **OK** to confirm your selection and enter that sub menu, press **EXIT** button you can return to the previous menu.

4.1. Installation

4.1.1.Anttenna Setting

Select Installation, press **OK** , the Installation window will be displayed.

Press **OK** to Enter Antenna Setting, here you can make satellite search, multi satellites search, satellite edit, TP search, TP edit and other functions.This window shows the pre-stored satellite list,you can select satellite by ▲/▼ button,press **OK** to mark the satellite.

A: Antenna setup

Press **Right** button on RCU and move to the antenna setting,here to setup the correct LNB frequency,switch Type(None, LNB 1...LNB 4,burst A,burstB,Auto).

B : LNB frequency and power

Here you need to check the LNB frequency according to your antenna,set the correct frequency or define yourself, and keep LNB power be 13V/18V.

C : Satellite Edit

C-1 : Add satellite

Press **Green** button to add satellite,here you can input new positon and other details,**OK** to confirm the setting,and this new satellite will be added to the end of the satellite list.

C-2 : Delete satellite

Press **Red** button to delete satellite.You will get a warning message to ask you confirm the delete. After you confirm, all TP and channel in this satellite will be deleted.

C-3 : Rename satellite

Press **Yellow** button to rename satellite.

D :Multi Satellites Search

After selecting satellites,you can press **Blue** button to start search channels. During searching the TV channel and Radio channel will be listed separately.

E: Transponder list

Here select transponder list by ▲/▼ button,press **OK** button.Here you can **Add**, **Edit**, **Delete** transponder under the satellite you selected.

E-1: Add TP

Press **Green** button you will get this window, and here you can input the frequency, polarization, symbol rate and FEC to add a new transponder, press OK to confirm the setting.

E-2: Delete TP

Press **Red** key to delete the select TP with your confirm.

E-3: Search channel

After selecting transponders,you can press **Blue** button to start search channels.During searching the TV channel and Radio channel will be listed separately.

E-4: Edit PID

Press **Yellow** key to enter PID menu, here you can Add, Delete , sRename a channel.

E-4.1 Add PID

Press **Green** button, you can add one channel by inputting the PID.

E-4.2: Rename

You can press **Yellow** button to rename the selected channel.

E-4.3: delete

Press the **Red** button to delete the selected channel .

F: Motorised System

If you connect receiver to DiSEqC1.2 or DiSEqC1.3 antenna,set Motorised system to DiSEqC1.2 or USALS, Here press **OK** button to enter motor system.

➢ **Satellite**

Select the correct satellite what you want to search.

➢ Select the correct TP in this satellite to detect the signal when motor is moving.

➢ **Position Auto** To Drive the dish until find the strong signal.

➢ **Continuously Move**

Push ◀ / ▶ button, the dish will be motorised to West / East to search the best signal, release the button will stop the moving.

➢ **Step Size**

Set the moving step.

➢ **Move Steps**

Move East or West step by step.

➢ **Limit Set**

Disable or enable West limit or East limit by pressing **OK**.

➢ **Save Position**

Press **OK** button to save the current position you searched.

➢ **Command Type**

Save Position: Save the current position.

Go to Position: Press **OK** button to move the dish to the stored position.

Go to Reference: Press **OK** button to move the dish to reference 0 position.

Go to X.X (9.9): If you use USALS and select the Motor Mode to USALS, here one more option you can move the dish to exact position of the satellite.

Note: Before you use USALS, you should go to Main Menu→System Setting→USALS Setup to set you local position firstly.

4.1. 2 CA Menu

This message will appear after you insert the CA Card.

CA Menu

THis menu will display detail information about the CA Card.

4.2. Channel Manager

Press **Channel Manager** in the **main menu**, you will get this window, here you can edit TV channels and Radio channels, sort channels and upgrade channels via SDX.

A: Edit Channels

Select Edit channel, you will go to the channel edit menu. Here you can Delete, Move, Rename or Lock the channels.

B: Edit Favorite

Enter Edit Favorites Menu, you can set 8 group favorites. You can scroll the favorites group by ◀ / ▶ key, and you can set the favorite by select the **Red/Green/Yellow/ Blue** key.

C: Parental Control

Here to setup your password easy to remember, if you forget this password, please contact with your dealer for assistance. Also you can select some menu entrance to be locked by password.

D: Sort Channel

you can select <Satellite > to sort channels by satellite,select <Transponder>to sort channels by transponder ,select <Alphabet >to sort channels by alphabet ,and select <Original channel list> to sort channels back to original channel list.

E: Delete Satellite Channels

After select one satellite, if you press **OK** ,All channels of this satellite will be deleted.

F: Factory Default

You can choose reset type, <ALL, Channel list, only Radio list, only Scramble channel>. If you choose ALL, all the previous setting will be erased, such as parental code, favorite channel etc…

4.3. System Setting

Select System Setting, you can get this windows.

A:System

You can setup the menu language, audio language,RF, according to the standard of your country.

B: OSD

Here you can set some OSD options. Such as Menu Color, Transparency, Time out, and TV system, 4:3 and 16:9.

C: Timer Adjust

Here you can set Timer, Event Timer and Sleep Timer.

C-1. Timer Setup

Here to set the timer mode, time zone and summer time if needed according to your region.

Timer Mode: <Auto> Auto detect timer from EPG time
<Manual> Set the time by manual.
Time zone: Select you the Time zone from the time difference.
Summer Time: If you region need summer time to correct the current time, please make it ON.Source: <TV> Select channel from TV list
<RADIO> Select channel from Radio list
Channel: Select the channel from channel list
Date: Start Date you want to active the timer
Start/Stop: Set Start and Stop time
Repeat: <1X> only one time <Day> Repeat every day. <1 Week> Repeat the channel 1 week. <1-5> Repeat the channel from Monday to Friday. <6-7> Repeat the channel from Saturday to Sunday.

C-2. Event Timer
Here you can set your favorite channel to begin broadcasting at future time you set, including both TV and Radio, you can add, edit and delete the event you set. Note: You can add 8 groups event timer.

C-3. Sleep Timer
Here you can set Sleep timer to automatically switch off the receiver.

D: Update Via SatcoDX

If you have subscription to TELE-Satellite, then you can use this function to upgrade the channel data by RS232 through the computer.

E: USALS Setup

If you use USALS, you have to setup your Local parameters.

F: About STB

Here is some information about this STB, including software version, hardware version Loader version, you need to submit these information to your dealer if you need service from them.

4.4. Games

Games are available in this S/W

4.5. Other Useful Information

This will guide you on how to use general info while watching TV program or listening Radio program.

TV/RADIO:

To Switch between TV and Radio.

RECALL:

Press **Recall** button you will get the viewing history of last 16.

SAT

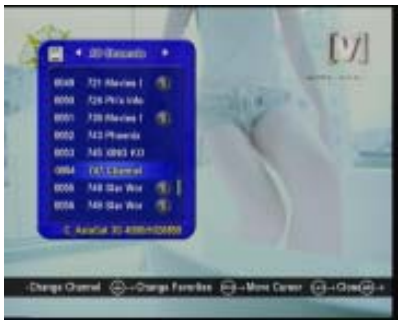
Press **SAT** button on the remote control, you will get this menu which contains the satellites you searched and stored, select one satellite and press **OK**, all channels will be listed under that satellite you selected.

EPG:

Press **EPG** button on remote control, you can get the electronic program guide of seven days if available.

FAV:

In viewing mode, you can get the favorite channel group by pressing **FAV,** press **Red** button to change category



Channel List-OK

In viewing mode press **OK** button and you will get this window. Press **Red**, **Green**, **Yellow** and **Blue** button to select different category.

AUDIO:

In viewing mode press **AUDIO** button and you will get a menu, you can set the Audio mode here and change the audio mode, Stereo, Left, Right.

PAUSE:
If a USB disk is connected, it will initialize Time-shift, otherwise it will freeze the picture.

ZOOM:
Picture Zooming function.

i:
In the viewing mode when you press **INFO** button, the info bar will pop up, it contains satellite and channel information, detailed EPG info will display in the menu if press **INFO** again.

F2:SUB
Showing Subtitle information if the channels contains.

F3:

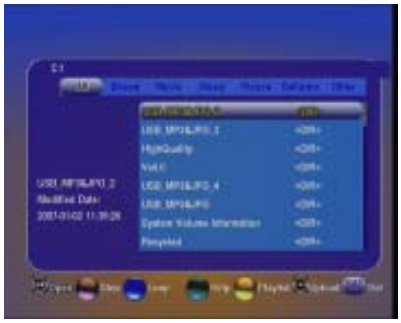
In viewing mode ,press **F3** you will get the multi picture selection ,select one and press ok ,multi picture will be displayed. Move ▲/ ▼, ◀ / ▶ to select channel,press **F3** again to get that selected channelpop out and it is living ,press **OK** to display it in full screen or exit to select other channel.

TTX:

Show the teletext content if teletextis transmitted.

■ /USB:

Press " **■ /USB**" key to enter USB menu. The current directory path display on the top part of the menu. The default file list is composed of all files and subfolders in the current path.



All supported files can be opened by pressing "**OK**" key, and these files such as *. mp3, *.jpg, *.bmp, *.dat, *.mpg, *.gts can also be opened by pressing " ▶" key.

1) Press ◀ / ▶ key to switch to a specific file list of the current folder
2) Press **OK** / ▶ key to play the selected file

A : Play Stream

- **OK** : View play list / Play the selected file in play list
- **YELLOW_KEY** : View play list
- ▶ : Play the selected file in play list / Resume playing file
- ■ **/USB** : Stop playing file
- ⏮ : Play the previous item
- ⏭ : Play the next item
- ❚❚ **/ PAUSE** : Pause
- **AUDIO** : Switch audio channel
- **INFO** : Display current file's information
- ◀ / ▶ : Adjust volume
- **EXIT** : Exit play list menu / Exit playing state and return to file list menu.

B : View picture

- **OK** : View play list / Play the selected file in play list
- **YELLOW_KEY** : View play list
- **BLUE KEY** : Switch on/off slide show,the interval of slide show is 5 seconds.
- ▶ : Play the selected file in play list
- ■ **/USB** : Return to file list menu
- ⏮ : Play the previous item
- ⏭ : Play the next item
- ▲/▼: Play the previous/ next item
- **EXIT** : Exit playing state and return to file list menu

C : Play Movie

- **OK** : View play list / Play the selected file in play list
- **YELLOW_KEY** : View play list
- ▶ : Play the selected file in play list
- ■ **/USB** : Stop playing file
- ⏮ : Play the previous item
- ⏭ : Play the next item
- **AUDIO** : Switch audio channel
- **INFO** : Display current file's information
- ◀ / ▶ : Adjust volume
- **EXIT** : Exit play list menu / Exit playing state and return to file list menu

D : Play MP3

- **OK** : Play the selected file in play list
- ▶ : Play the selected file in play list / Resume playing file
- ■ **/USB** : Stop playing file
- ⏮ : Play the previous item
- ⏭ : Play the next item
- ❚❚ **/ PAUSE** : Pause
- ◀ / ▶ : Adjust volume
- **EXIT** : Exit playing state and return to file list menu

E : Download Software/Database

1) Press ◀ / ▶ key to switch to “Software” file list of the current folder

2) Press **OK** key to open and download the selected file

F : Upload Database

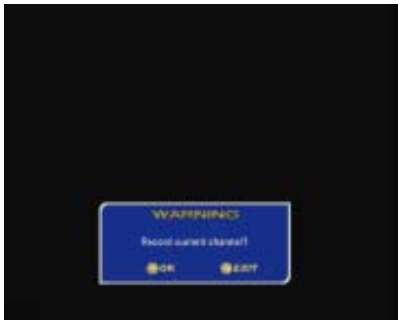
In file list menu, press “**FAV**” key to start to upload database

G: Delete file

In file list menu, press “**SAT**” key can delete non-system file

❚❚ : If a USB disk is connected, press this key will stop display picture and initialize time-shift. In time-shift mode, press **INFO** key to hide/display the time-shift information, ■ **/USB** or **EXIT** key stop time-shift.

● : Press this key will stop display picture for a moment and initialize record process. In recording mode, press **INFO** key to hide/ display the time-shift information, ■ **/USB** or **EXIT** key stop recording.



5. Additional Information

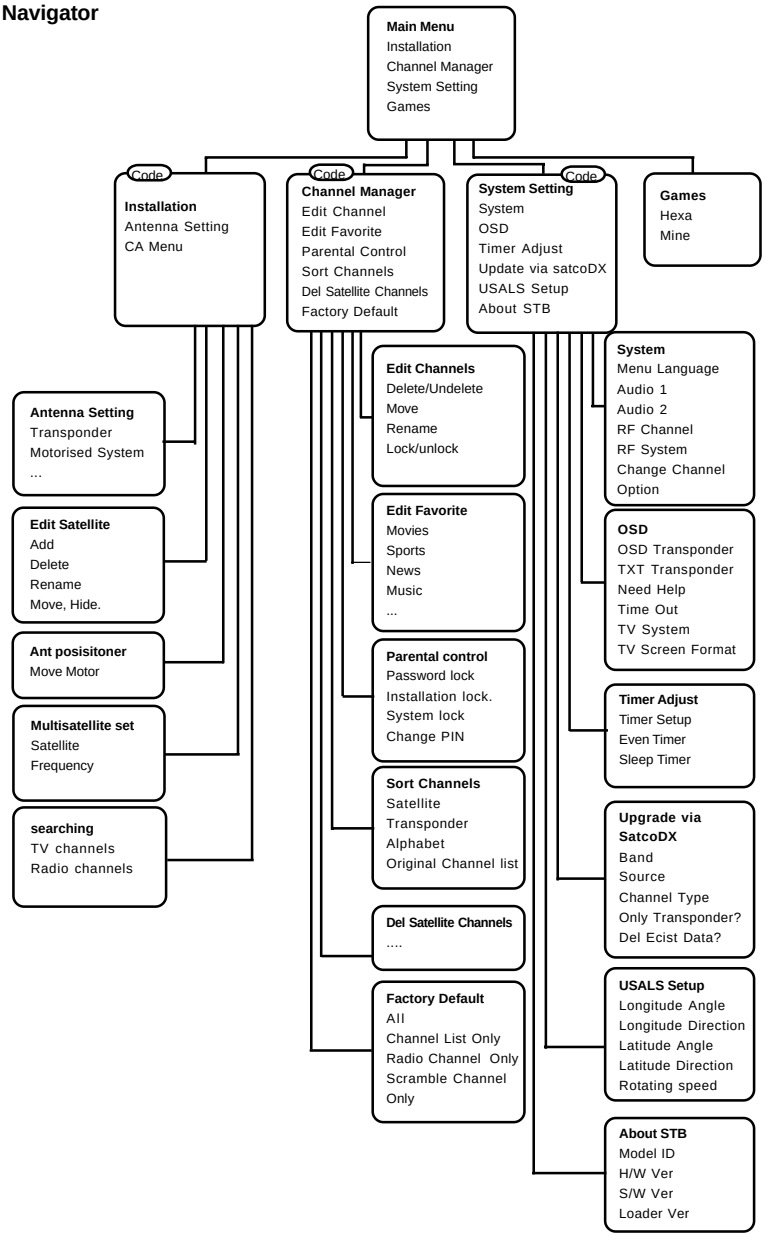
5.1 Problem Solving

You might meet abnormal working of this STB with various reasons, check the following which may help you.

Problem	Possible causes	What to do
LED on the front panel fail to light up/is not lit.	Mains supply cable is not connected.	Check if the mains supply cable is plugged into the power socket.
No picture or sound.	Satellite dish is not aiming to satellite accurately. No signal or weak signal. The LNB is faulty. The cable is faulty.	Adjust the dish. Check the signal strength indicator in one of the channel search submenus. Check the cable connections,LNB and other equipment connected to LNB & receiver, or adjust dish. Replace the LNB. Replace the cable.
Bad picture/blocking error.	Satellite dish is not aiming to the satellite accurately Signal too strong. Satellite dish is too small. LNB noise factor too high. The LNB is faulty.	Adjust the dish. Connect a attenuator to LNB input. Change to a larger dish. Change LNB with lower noise factor. Replace the LNB.
No startup menu on screen after turning on STB for the first time.	The system is connected by SCARTcables and the TV is not in AV/EXTmode.	Switch the TV to the appropriate AV input.
The remote control is not working.	Battery exhausted. Remote control is not aimed correctly STB is in standby mode.	Change the batteries (both). Aim the remote control at the STB. Check that nothing blocks the front panel. Check if LED indicator on the front panel is showing the time, press the power button to switch off standby mode.
You have forgotten your password.		Contact the dealer or Service Provider. They will help you set it up again.
Poor picture quality or Less channels in scanning.	Low LNB power or signal loss in cable.	Change the LNB power to 14V/19V in Antenna setup menu.

5.2 Menu Screen Structure

Menu Navigator



5.3 Glossary

Antenna
A device that collects and radiates electromagnetic waves. Includes a satellite dish and abroadband antenna.

DiSEqC
DiSEqC(Digital Satellite Equipment Control)system, it is a communication bus between satellite receivers and peripheral equipment using only the existing coaxial cable.

DVB
The Digital Video Broadcast group was created to establish a technical framework for the introduction of digital video broadcasting systems.

LNB (low-noise block converter) or LNBF
An electronic unit mounted on the satellite dish. It receives the signals reflected by the dish and converts them to signals that can be used by the digital satellite receiver.

GHz
The prefix giga means milliard, and Hertz means cycles per second. Signals in the GHz range are often called microwaves.

MHz
The prefix mega means million, and Hertz means cycles per second.

MPEG
Moving Picture Experts Group. Established by the International Standards Organisation to provide the basis for a picture coding and compression system.

Forward Error Correction(FEC)
A system of error control for data transmission.

PID(Packet Identifier)
A set of numbers that idenitifies transport stream packets containing data from a single data stream.

Polarisation
Polarisation allows several programmes to be fit into the same frequency band. The signals from a satellite are transmitted either with linear (vertical or horizontal) polarisation or circular (right or left) polarisation.

QPSK(Quaternary Phase Shift Keying)
Phase-shift keying in which four different phase angles are used.

Transponder
An automatic device that receives, amplifies and retransmits a signal on a different frequency.

Symbol rate
Speed of the digital transmission

RF
Radio frequency (known as HF in some countries).

RGB
Red, Green, Blue. Colour signals are routed in separatecables in order to provide a high quality TV picture.

Scrambled TV programme
Some TV programmes are transmitted in scrambled form.

SERIAL RS 232
A serial communication standard data port.

S/PDIF
Sony/Philips Digital Interface Format. Digital audio output.

RCA
Coaxial connector used to connect the receiver to an external amplifier.